Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (original) A photoinitiator system comprising:
 - (a) an iodonium salt;
 - (b) a visible light sensitizer;
 - (c) a first anthracene that has a light absorption maximum less than about 400 nanometers; and
 - (d) a second anthracene having the following structure

$$R_{7}$$
 R_{6}
 R_{5}
 R_{10}
 R_{4}

wherein each of R_1 to R_{10} is independently selected from H, or alkyl, phenyl or alkoxy groups, provided that at least one of R_1 to R_{10} is not H.

- 2. (original) A photopolymerizable composition comprising:
 - (a) a cationically polymerizable resin; and
- (b) a photoinitiator system for the cationically polymerizable resin, the photoinitiator system comprising:
 - (i) an iodonium salt;
 - (ii) a visible light sensitizer;
 - (iii) a first anthracene that has a light absorption maximum less than about 400 nanometers; and
 - (iv) a second anthracene having the following structure

$$R_{7}$$
 R_{6}
 R_{5}
 R_{10}
 R_{4}

wherein each of R_1 to R_{10} is independently selected from H, alkyl, phenyl or alkoxy groups, provided that at least one of R_1 to R_{10} is not H.

- 3. (original) The photopolymerizable composition according to claim 2, wherein the cationically polymerizable resin is selected from the group consisting of epoxy, oxetane, vinyl ether and spiro-orthocarbonate resins, and combinations thereof.
- 4. (original) The photopolymerizable composition according to claim 3, wherein the cationically polymerizable resin comprises an epoxy resin.
- 5. (original) The photopolymerizable composition according to claim 4, wherein the cationically polymerizable resin comprises a silicon-containing epoxy resin.
- 6. (original) The photopolymerizable composition according to claim 3, wherein the cationically polymerizable resin comprises a blend of a silicon-containing epoxy resin and an epoxy resin that does not contain silicon.
- 7. (original) The photopolymerizable composition according to claim 2, wherein the iodonium salt is selected from the group consisting of diaryliodonium hexafluorophosphate, diaryliodonium hexafluoroantimonate, diaryliodonium tetrakis(pentafluorophenyl)borate, 4-octyloxyphenyl phenyliodonium hexafluoroantimonate, 4-(2-hydroxytetradecyloxyphenyl)

phenyliodonium hexafluoroantimonate, 4-(1-methylethyl)phenyl 4-methylphenyliodonium tetrakis(pentafluorophenyl)borate, and combinations thereof.

- 8. (original) The photopolymerizable composition according to claim 2, wherein the visible light sensitizer is selected from the group consisting of ketones, coumarin dyes, xanthene dyes, fluorone dyes, fluorescein dyes, aminoketone dyes, p-substituted aminostyryl ketone compounds, and combinations thereof.
- 9. (original) The photopolymerizable composition according to claim 2, wherein the visible light sensitizer is an alpha-diketone.
- 10. (original) The photopolymerizable composition according to claim 9, wherein said alpha-diketone is camphorquinone.
- 11. (original) The photopolymerizable composition according to claim 2, wherein the first anthracene is unsubstituted anthracene.
- 12. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is selected from 2-ethyl-9,10-dimethoxyanthracene, 9,10-dimethylanthracene, 9,10-diethoxyanthracene, 1,4-dimethoxyanthracene, 9-methylanthracene, 2-ethylanthracene, 1,4-dimethoxyanthracene, 2-tert-butylanthracene, 2,6-di-tert-butylanthracene, and 9,10-diphenyl-2,6-di-tert-butylanthracene.
- 13. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is 2-ethyl-9,10-dimethoxyanthracene
- 14. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is 9,10-dimethylanthracene.
- 15. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is 9,10-diethoxyanthracene.

- 16. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is 1,4-dimethoxyanthracene.
- 17. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is 9-methylanthracene.
- 18. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is 2-ethylanthracene.
- 19. (original) The photopolymerizable composition according to claim 2, wherein at least one of R_1 to R_{10} is tert-butyl.
- 20. (original) The photopolymerizable composition according to claim 2, wherein the second anthracene is 2,6-di-tert-butylanthracene.
- 21. (original) The photopolymerizable composition according to claim 2, further comprising a free-radically polymerizable resin.
- 22. (original) The photopolymerizable composition according to claim 2, further comprising a hydroxyl-containing material.
- 23. (original) The photopolymerizable composition according to claim 2, wherein the photopolymerizable composition is a photopolymerizable adhesive.
 - 24. (original) A photoinitiator system comprising:
 - (a) an iodonium salt;
 - (b) a visible light sensitizer; and
 - (c) an electron donor comprising an alkoxy substituted anthracene.

25. (original) The system of claim 24, further comprising a second electron donor compound having the following formula:

$$R_{7}$$
 R_{6}
 R_{5}
 R_{10}
 R_{4}

wherein each of R_1 to R_{10} is independently selected from H, alkyl, phenyl or alkoxy groups.

- 26. (original) A photopolymerizable composition comprising:
 - (a) a cationically polymerizable resin; and
- (b) a photoinitiator system for the cationically polymerizable resin, the photoinitiator system comprising:
 - (i) an iodonium salt;
 - (ii) a visible light sensitizer; and
 - (iii) an electron donor comprising an alkoxy substituted anthracene.
- 27. (original) The system of claim 26, further comprising a second electron donor having the following formula:

$$R_{7}$$
 R_{6}
 R_{5}
 R_{10}
 R_{4}

wherein each of R_1 to R_{10} is independently selected from H, alkyl, phenyl or alkoxy groups.

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- 28. (original) The photopolymerizable composition according to claim 26, wherein the cationically polymerizable resin is selected from the group consisting of epoxy, oxetane, vinyl ether and spiro-orthocarbonate resins, and combinations thereof.
- 29. (original) The photopolymerizable composition according to claim 28, wherein the cationically polymerizable resin comprises an epoxy resin.
- 30. (original) The photopolymerizable composition according to claim 29, wherein the cationically polymerizable resin comprises a silicon-containing epoxy resin.
- 31. (original) The photopolymerizable composition according to claim 28, wherein the cationically polymerizable resin comprises a blend of a silicon-containing epoxy resin and an epoxy resin that does not contain silicon.
- 32. (original) The photopolymerizable composition according to claim 26, wherein the iodonium salt is selected from the group consisting of diaryliodonium hexafluorophosphate, diaryliodonium hexafluoroantimonate, diaryliodonium tetrakis(pentafluorophenyl)borate, 4-octyloxyphenyl phenyliodonium hexafluoroantimonate, 4-(2-hydroxytetradecyloxyphenyl) phenyliodonium hexafluoroantimonate, 4-(1-methylethyl)phenyl 4-methylphenyliodonium tetrakis(pentafluorophenyl)borate, and combinations thereof.
- 33. (original) The photopolymerizable composition according to claim 26, wherein the visible light sensitizer is selected from the group consisting of ketones, coumarin dyes, xanthene dyes, fluorone dyes, fluorescein dyes, aminoketone dyes, p-substituted aminostyryl ketone compounds, and combinations thereof.
- 34. (original) The photopolymerizable composition according to claim 26, wherein the visible light sensitizer is an alpha-diketone.
- 35. (original) The photopolymerizable composition according to claim 34, wherein the alpha-diketone is camphorquinone.

- 36. (original) The photopolymerizable composition according to claim 26, wherein the alkoxy substituted anthracene is selected from 2-ethyl-9,10-dimethoxyanthracene, 9,10-diethoxyanthracene, and 1,4-dimethoxyanthracene.
 - 37. (original) A photoinitiator system comprising:
 - (a) an iodonium salt;
 - (b) a visible light sensitizer;
 - (c) a first anthracene and a second anthracene both having the following structure:

$$R_{7}$$
 R_{6}
 R_{5}
 R_{10}
 R_{4}

wherein for said first anthracene each of R_1 to R_{10} is independently selected from H, alkyl, phenyl, or alkoxy groups, provided that at least one of R_1 to R_{10} is alkoxy, and wherein for said second anthracene each of R_1 to R_{10} is independently selected from H, alkyl, phenyl or alkoxy groups.

- 38. (original) A photopolymerizable composition comprising:
 - (a) a cationically polymerizable resin; and
- (b) a photoinitiator system for the cationically polymerizable resin, the photoinitiator system comprising:
 - (i) an iodonium salt;
 - (ii) a visible light sensitizer; and
 - (iii) a first anthracene and a second anthracene both having the following structure:

$$\begin{matrix} R_8 & R_9 & R_1 \\ R_7 & & & & \\ R_6 & & & & \\ R_5 & R_{10} & R_4 \end{matrix}$$

wherein for said first anthracene each of R_1 to R_{10} is independently selected from H, alkyl, phenyl or alkoxy groups, provided that at least one of R_1 to R_{10} is alkoxy, and wherein for said second anthracene each of R_1 to R_{10} is independently selected from H, alkyl, phenyl or alkoxy groups.

- 39. (original) The photopolymerizable composition according to claim 38, wherein the cationically polymerizable resin is selected from the group consisting of epoxy, oxetane, vinyl ether and spiro-orthocarbonate resins, and combinations thereof.
- 40. (original) The photopolymerizable composition according to claim 39, wherein the cationically polymerizable resin comprises an epoxy resin.
- 41. (original) The photopolymerizable composition according to claim 40, wherein the cationically polymerizable resin comprises a silicon-containing epoxy resin.
- 42. (original) The photopolymerizable composition according to claim 39, wherein the cationically polymerizable resin comprises a blend of a silicon-containing epoxy resin and an epoxy resin that does not contain silicon.
- 43. (original) The photopolymerizable composition according to claim 38, wherein the iodonium salt is selected from the group consisting of diaryliodonium hexafluorophosphate, diaryliodonium hexafluoroantimonate, diaryliodonium tetrakis(pentafluorophenyl)borate, 4-octyloxyphenyl phenyliodonium hexafluoroantimonate, 4-(2-hydroxytetradecyloxyphenyl) phenyliodonium hexafluoroantimonate, 4-(1-methylethyl)phenyl 4-methylphenyliodonium tetrakis(pentafluorophenyl)borate, and combinations thereof.

- 44. (original) The photopolymerizable composition according to claim 38, wherein the visible light sensitizer is selected from the group consisting of ketones, coumarin dyes, xanthene dyes, fluorone dyes, fluorescein dyes, aminoketone dyes, p-substituted aminostyryl ketone compounds, and combinations thereof.
- 45. (original) The photopolymerizable composition according to claim 38, wherein the visible light sensitizer is an alpha-diketone.
- 46. (original) The photopolymerizable composition according to claim 45, wherein said alpha-diketone is camphorquinone.
- 47. (original) The photopolymerizable composition according to claim 38, wherein first anthracene is selected from 2-ethyl-9,10-dimethoxyanthracene, 9,10-diethoxyanthracene, and 1,4-dimethoxyanthracene.
- 48. (original) A photopolymerizable composition according to claim 38, wherein second anthracene is selected from 2-ethyl-9,10-dimethoxyanthracene, 9,10-dimethylanthracene, 9,10-dimethylanthracene, 1,4-dimethoxyanthracene, 9-methylanthracene, 2-ethylanthracene, 1,4-dimethoxyanthracene, 2-fert-butylanthracene, 2,6-di-tert-butylanthracene, and 9,10-diphenyl-2,6-di-tert-butylanthracene.
- 49. (original) A photopolymerizable dental material comprising the photopolymerizable composition of claim 2, 26 or 38.
- 50. (original) The photopolymerizable dental material of claim 49 further comprising at least one filler.
- 51. (original) The photopolymerizable dental material of claim 50, wherein said filler is selected from quartz, submicron silica, and non-vitreous microparticles.

- 52. (original) The photopolymerizable dental material of claim 49, further comprising at least one adjuvant.
- 53. (original) The photopolymerization dental material of claim 52, wherein said adjuvant is selected from accelerators, inhibitors, absorbers, stabilizers, pigments, dyes, viscosity modifiers, surface tension depressants and wetting aids, antioxidants
- 54. (withdrawn) A method for preparing a dental restorative or prosthesis, said method comprising:
 - (a) providing the photopolymerizable dental material of claim 49; and
 - (b) polymerizing the dental material by exposing it to light of an appropriate wavelength to provide said dental restorative or prosthesis.
- 55. (withdrawn) The method of claim 54, further comprising the step of disposing said material into the mouth of a patient before or after step (b).
- 56. (withdrawn) The method of claim 54, wherein said dental material is irradiated with light for a period of time less than 120 seconds.
 - 57. (new) A photoinitiator system comprising:
 - (a) an iodonium salt;
 - (b) a visible light sensitizer; and
 - (c) an electron donor selected from the group consisting of an alkoxy substituted anthracene; the combination of a first anthracene that has a light absorption maximum less than about 400 nanometers and a second anthracene having the following structure

wherein each of R_1 to R_{10} is independently selected from H, or alkyl, phenyl or alkoxy groups, provided that at least one of R_1 to R_{10} is not H; and the combination of a first anthracene and a second anthracene both having the following structure:

$$R_{7}$$
 R_{6}
 R_{5}
 R_{10}
 R_{4}

wherein for said first anthracene each of R_1 to R_{10} is independently selected from H, alkyl, phenyl, or alkoxy groups, provided that at least one of R_1 to R_{10} is alkoxy, and wherein for said second anthracene each of R_1 to R_{10} is independently selected from H, alkyl, phenyl or alkoxy groups.

- 58. (new) The photoinitiator system of claim 57, further comprising: a cationically polymerizable resin so as to form a photopolymerizable composition.
- 59. (new) The photopolymerizable composition of claim 58, further comprising: a filler.